

## DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

### METHODS FOR PRODUCING LEAD-FREE *IN-SITU* COMPOSITE SOLDER ALLOYS

the specification of which (check one)

☒ [XX] is attached hereto.

☐ [ ] was filed on \_\_\_\_\_ as Application  
Serial No. \_\_\_\_\_ and was amended on  
\_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, section 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

### PRIOR FOREIGN APPLICATION(S)

|          |           |                        | <u>Priority Claim</u> |       |
|----------|-----------|------------------------|-----------------------|-------|
| (Number) | (Country) | (Day/Month/Year filed) | Yes                   | No    |
| _____    | _____     | _____                  | _____                 | _____ |
| (Number) | (Country) | (Day/Month/Year filed) | Yes                   | No    |
| _____    | _____     | _____                  | _____                 | _____ |
| (Number) | (Country) | (Day/Month/Year filed) | Yes                   | No    |
| _____    | _____     | _____                  | _____                 | _____ |

## DECLARATION AND POWER OF ATTORNEY

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States Provisional application(s) listed below:

### PRIOR PROVISIONAL APPLICATIONS

\_\_\_\_\_  
(application serial number)

\_\_\_\_\_  
(Month / Day / Year filed)

\_\_\_\_\_  
(application serial number)

\_\_\_\_\_  
(Month / Day / Year filed)

I hereby claim the benefit under Title 35, United States Code, section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

| Application Serial No. | Filing Date | Status - patented,<br>pending, abandoned |
|------------------------|-------------|--|
| _____                  | _____       | _____                                    |
| _____                  | _____       | _____                                    |
| _____                  | _____       | _____                                    |
| _____                  | _____       | _____                                    |

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint DeAnn F. Smith, Reg. No. 36,683, and each principal, attorney of counsel, associate and employee of Harness, Dickey & Pierce, P.L.C., who is a registered Patent Attorney, my attorney with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. I request the Patent and Trademark Office to direct all correspondence and telephone calls relative to this application to Harness, Dickey & Pierce, P.L.C., P. O. Box 828, Bloomfield Hills, Michigan 48303 (248) 641-1600.

Full name of sole or first inventor: Thomas R. Bieler

Inventor's signature: Thomas R. Bieler

Date: 12 June 98

Residence: 545 Elizabeth Street, East Lansing, Michigan 48823

Citizenship: United States Of America

Post Office Address: 545 Elizabeth Street, East Lansing, Michigan 48823

DECLARATION AND POWER OF ATTORNEY

Full name of second joint inventor, if any: K.N. Subramanian

Second Inventor's signature: K.N. Subramanian

Date: 6/17/98

Residence: 10872 Abbey, Brighton, Michigan 48114

Citizenship: United States Of America

Post Office Address: 10872 Abbey, Brighton, Michigan 48114

Full name of third joint inventor, if any: Sunglak Choi

Third Inventor's signature: S Choi

Date: 6/17/98

Residence: 2901 East Jolly Road, #307, Lansing, Michigan 48910

Citizenship: Korea

Post Office Address: 2901 East Jolly Road, #307, Lansing, Michigan 48910

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s) or Patentee: Thomas R. Bieler, et al.

Serial or Patent No.:

Filed or Issued:

For: Methods For Producing Lead-Free *In-Situ* Composite Solder Alloys

Attorney Docket No.: 6550-000013

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY  
STATUS (37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION**

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

NAME OF ORGANIZATION: Board Of Trustees Operating Michigan State University

ADDRESS OF ORGANIZATION: East Lansing, Michigan 48824

TYPE OF ORGANIZATION:

- ☒ University or other institution of higher education  
☐ Tax exempt under Internal Revenue Service Code (26 USC 501(a) and 501(c)(3))  
☐ Nonprofit scientific or educational under statute of state of The United States of America

(Name of state: \_\_\_\_\_ )

(Citation of statute: \_\_\_\_\_ )

- ☐ Would qualify as tax exempt under Internal Revenue Service Code (26 USC 501(a) and 501(c)(3)) if located in The United States of America  
☐ Would qualify as nonprofit scientific or educational under statute of state of The United States of America if located in The United States of America

(Name of state: \_\_\_\_\_ )

(Citation of statute: \_\_\_\_\_ )

I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code with regard to the invention entitled

**METHODS FOR PRODUCING LEAD-FREE *IN-SITU*  
COMPOSITE SOLDER ALLOYS**

by inventor(s) Thomas R. Bieler, K.N. Subramanian and Sunglak Choi described in

☒ the specification filed herewith

☐ application serial no. \_\_\_\_\_ filed \_\_\_\_\_

☐ patentno. \_\_\_\_\_ issued \_\_\_\_\_

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) AND 1.27(d)) - NONPROFIT ORGANIZATION**

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above-identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

\*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

☐ Individual    ☐ Small Business Concern    ☐ Nonprofit Organization

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

☐ Individual    ☐ Small Business Concern    ☐ Nonprofit Organization

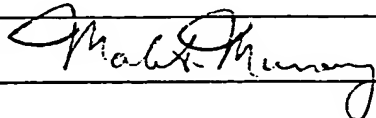
I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing: Mark A. Murray

Title in Organization: Associate VP for Business & Finance

Address of Person Signing: Michigan State University  
East Lansing, Michigan 48824

Signature:  Date: 30 June 98

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|                          |   |  |
|--------------------------|---|--|
| Group Art Unit:          | ) |  |
|                          | ) |  |
| Examiner:                | ) |  |
|                          | ) |  |
| Inventor(s):             | ) | ESTABLISHMENT OF                       |
| Thomas R. Bieler, et al. | ) | ASSIGNEE'S RIGHT TO                    |
|                          | ) | PROSECUTE APPLICATION                  |
| Serial No.               | ) | UNDER 37 C.F.R. § 3.73(b),             |
|                          | ) | AND POWER OF ATTORNEY                  |
| Filed:                   | ) |  |
|                          | ) |  |
| For:                     | ) | Methods For Producing Lead-Free        |
|                          | ) | <i>In-Situ</i> Composite Solder Alloys |
|                          | ) |  |

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Hon. Commissioner Of Patents & Trademarks  
Washington, D. C. 20231

Sir:

Under 37 C.F.R. § 3.73(b), the undersigned hereby establishes the below-named  
Assignee's ownership in the above-identified Application:

Assignee: Board Of Trustees Operating Michigan State University  
East Lansing, Michigan 48824

The documentary evidence of a chain of title from the original owner to the Assignee  
is provided in the Assignment Document(s):

XX filed herewith.

\_\_\_ previously filed,

Reel No. \_\_\_\_\_, Frame No. \_\_\_\_\_.

I hereby declare that all statements made herein of my own knowledge are true, and  
that all statements made on information and belief are believed to be true; and further that  
these statements are made with the knowledge that willful false statements, and the like so  
made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the

United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Assignee furthermore hereby appoints DeAnn F. Smith, Reg. No. 36,683, and each other principal, attorney of counsel, associate and employee of Harness, Dickey & Pierce, P.L.C., who is a registered Patent Attorney, as attorney of record, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. I request the Patent and Trademark Office to direct all correspondence and telephone calls relative to this application to Harness, Dickey & Pierce, P.L.C., P. O. Box 828, Bloomfield Hills, Michigan 48303 (telephone 248-641-1600).

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

Date: 30 June 78

Mark A. Murray  
Name: *Mark A. Murray*  
Title: Associate VP for Business & Finance  
Assignee: Board Of Trustees Operating  
Michigan State University